WHAT IS CLAIMED IS:

1	1.	A method of optimizing switched diversity comprising:
2		determining a rate of change of strength values of a received signal
3	of a first bra	nch as a function of time;
4		comparing a magnitude of the rate of change to a threshold; and
5		switching to a second branch in response to a determination that the
6	magnitude o	f the rate of change exceeds the threshold.
1	2.	The method of claim 1 wherein each branch comprises a carrier.
1	3.	The method of claim 1 wherein each branch comprises an antenna.
1	4.	The method of claim 2 wherein the step of determining comprises
2	using a rece	ived-signal-strength indicator (RSSI).
1	5.	The method of claim 4 wherein the step of determining comprises
2	comparing a	a current-packet RSSI to an RSSI of an earlier-received packet.
1	6.	The method of claim 4 wherein the step of determining comprises
2.	estimating a	time derivative of the RSSI by calculating an RSSI moving average.

- The method of claim 2 wherein the threshold is a function of modulation and coding.
- 1 8. The method of claim 3 wherein the step of determining comprises 2 using a received-signal-strength indicator (RSSI).
- 1 9. The method of claim 8 wherein the step of determining comprises 2 comparing a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 10. The method of claim 8 wherein the step of determining comprises 2 estimating a time derivative of the RSSI by calculating an RSSI moving average.
- 1 11. The method of claim 3 wherein the threshold is a function of modulation and coding.

1	12.	A method of optimizing switched diversity comprising:
2		determining a rate of change of strength values of a received signal
3	of a first bra	nch operating at a first modulation scheme as a function of time;
4		comparing a magnitude of the rate of change to a threshold; and
5		switching to a second, more robust, modulation scheme in response
6	to a determin	nation that the magnitude of the rate of change exceeds the threshold.
1	13.	The method of claim 12 wherein each branch comprises a carrier.
1	14.	The method of claim 12 wherein each branch comprises an antenna.
1	15.	The method of claim 13 wherein the step of determining comprises
2	using a rece	ived-signal-strength indicator (RSSI).
1 2	16. estimating a	The method of claim 15 wherein the step of determining comprises time derivative of the RSSI by calculating an RSSI moving average.
1 2	17.	The method of claim 13 wherein the step of determining comprises a current-packet RSSI to an RSSI of an earlier-received packet.

The method of claim 13 wherein the threshold is a function of

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modulation and coding.

- 1 19. The method of claim 14 wherein the step of determining comprises 2 using a received-signal-strength indicator (RSSI).
- 1 20. The method of claim 19 wherein the step of determining comprises 2 estimating a time derivative of the RSSI by calculating an RSSI moving average.
- 1 21. The method of claim 14 wherein the step of determining comprises 2 comparing a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 22. The method of claim 14 wherein the threshold is a function of 2 modulation and coding.

1	23.	An apparatus for optimizing switched diversity comprising:
2		means for determining a rate of change of strength values of a
3	received sign	nal of a first branch as a function of time;
4		means for comparing a magnitude of the rate of change to a threshold;
5	and	
6		means for switching to a second branch in response to a determination
7	that the mag	mitude of the rate of change exceeds the threshold.
1	24.	The apparatus of claim 23 wherein each branch comprises an antenna.
1	25.	The apparatus of claim 23 wherein each branch comprises a carrier.
1	26.	The apparatus of claim 24 wherein the means for determining
2	comprises u	se of a received-signal-strength indicator (RSSI).
1	27.	The apparatus of claim 26 wherein the means for determining
2		comparison of a current-packet RSSI to an RSSI of an earlier-received
3	packet.	Company of a carree Language .
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- 1 28. The apparatus of claim 26 wherein the means for determining 2 comprises estimation of a time derivative of the RSSI by calculating an RSSI 3 moving average.
- 1 29. The apparatus of claim 24 wherein the threshold is a function of 2 modulation and coding.
- 1 30. The apparatus of claim 25 wherein the means for determining comprises use of a received-signal-strength indicator (RSSI).
- 1 31. The apparatus of claim 30 wherein the means for determining 2 comprises comparison of a current-packet RSSI to an RSSI of an earlier-received 3 packet.
- 1 32. The apparatus of claim 30 wherein the means for determining 2 comprises estimation of a time derivative of the RSSI by calculating an RSSI 3 moving average.
- 1 33. The apparatus of claim 25 wherein the threshold is a function of modulation and coding.
 - 34. A method of optimizing switched diversity comprising:

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2		determining a rate of change of strength values of a received signal
3	of a first bra	nch operating at a first coding scheme as a function of time;
4		comparing a magnitude of the rate of change to a threshold; and
5		switching to a second, more robust, coding scheme in response to a
6	determination	on that the magnitude of the rate of change exceeds the threshold.
1	35.	The method of claim 34 wherein each branch comprises a carrier.
1	36.	The method of claim 34 wherein each branch comprises an antenna.
1	37.	The method of claim 35 wherein the step of determining comprises
2	using a recei	ved-signal-strength indicator (RSSI).
1	38.	The method of claim 37 wherein the step of determining comprises
2	estimating a	time derivative of the RSSI by calculating an RSSI moving average.
1	39.	The method of claim 38 wherein the step of determining comprises
2	comparing a	current-packet RSSI to an RSSI of an earlier-received packet.
1	40.	The method of claim 35 wherein the threshold is a function of
2	modulation a	and coding.

- 1 41. The method of claim 36 wherein the step of determining comprises 2 using a received-signal-strength indicator (RSSI).
- 1 42. The method of claim 41 wherein the step of determining comprises 2 estimating a time derivative of the RSSI by calculating an RSSI moving average.
- 1 43. The method of claim 36 wherein the step of determining comprises 2 comparing a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 44. The method of claim 36 wherein the threshold is a function of 2 modulation and coding.

1	45.	An apparatus for optimizing switched diversity comprising:
2		means for determining a rate of change of strength values of a
3	received sign	nal of a first branch operating at a first modulation scheme as a function
4	of time;	
5		means for comparing a magnitude of the rate of change to a threshold;
6	and	
7		means for switching to a second, more robust, modulation scheme in
8	response to	a determination that the magnitude of the rate of change exceeds the
9	threshold.	
1	46.	The apparatus of claim 45 wherein each branch comprises a carrier.
1	47.	The apparatus of claim 45 wherein each branch comprises an antenna.
1	48.	The apparatus of claim 46 wherein the means for determining uses a
2	received-sig	gnal-strength indicator (RSSI).
1	49.	The apparatus of claim 48 wherein the means for determining
2	estimates a	time derivative of the RSSI by calculating an RSSI moving average.

- The apparatus of claim 46 wherein the means for determining compares a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 51. The apparatus of claim 46 wherein the threshold is a function of modulation and coding.
- The apparatus of claim 47 wherein the means for determining uses a received-signal-strength indicator (RSSI).
- 1 53. The apparatus of claim 52 wherein the means for determining 2 estimates a time derivative of the RSSI by calculating an RSSI moving average.
- 1 54. The apparatus of claim 47 wherein the means for determining 2 compares a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 55. The apparatus of claim 47 wherein the threshold is a function of modulation and coding.

1	56.	An apparatus for optimizing switched diversity comprising:
2		means for determining a rate of change of strength values of a
3	received sign	nal of a first branch operating at a first coding scheme as a function of
4	time;	
5		means for comparing a magnitude of the rate of change to a threshold;
6	and	
7		means for switching to a second, more robust, coding scheme in
8	response to	a determination that the magnitude of the rate of change exceeds the
9	threshold.	
1	57.	The apparatus of claim 56 wherein each branch comprises a carrier.
1	58.	The apparatus of claim 56 wherein each branch comprises an antenna.
1	59.	The apparatus of claim 57 wherein the means for determining uses a
2	received-sig	gnal-strength indicator (RSSI).
1	60.	The apparatus of claim 59 wherein the means for determining
2	estimates a	time derivative of the RSSI by calculating an RSSI moving average.
1	61.	The apparatus of claim 57 wherein the means for determining
2	compares a	current-packet RSSI to an RSSI of an earlier-received packet.

- 1 62. The apparatus of claim 57 wherein the threshold is a function of modulation and coding.
- 1 63. The apparatus of claim 58 wherein the means for determining uses a received-signal-strength indicator (RSSI).
- 1 64. The apparatus of claim 63 wherein the means for determining estimates a time derivative of the RSSI by calculating an RSSI moving average.
- 1 65. The apparatus of claim 58 wherein the means for determining compares a current-packet RSSI to an RSSI of an earlier-received packet.
- 1 66. The apparatus of claim 58 wherein the threshold is a function of modulation and coding.